

Page 1 of 1

All amounts are calculated in domestic currency.

Grouped by Vendor ID

[illegible]

Receiving Report

Date: 12/7/81

Batch No: M122571

Supplier: METAXAOLTE

Dart P/O: 17469

Packing Slip: Yes ✓ No

Release Note Attached: Yes ✓ No N/A

Invoice: Yes No ✓

Waybill Attached: Yes No ✓

Receipt: Cash Cr ✓

Shipment Complete: Yes ✓ No N/A

QC6 Inspection ✓ N/A

Work Order N/A

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12 h

Production/Admin: 12/7/31
Date
Received/Costing
Initial

Location

**Castle Metals®**

A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 1 of 1

No de Formulaire d'Emballage / Shipment No:1403107

Expédié de / Ship From: A. M. Castle & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		Vendu à / Sold To: DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		Expédié à / Ship To: METCOR INC. 560 BOUL. ARTHUR-SAUVÉ SAINT-EUSTACHE, QC J7R 5A8 CAN		Livré à / Deliver To: METCOR INC. 560 BOUL. ARTHUR-SAUVÉ SAINT-EUSTACHE, QC J7R 5A8 CA	
Date d'expédition / Date Shipped 25-JUL-2012	F.O.B. ORIGIN	Modalités de transport / Freight Terms Prepaid	Transporteur / Carrier LOCAL_FLEET		No du Bon de connaissance / BOL No 1403107-6		

Détails d'expédition / Shipment Details	Destination finale / Final Destination Branch - MON
--	--

N° de commande / Order No 2315457	N° de ligne / Line No 1	N° d'article / Item No 14968	Description 1.0000.RD.17CR-4NI.STAINLESS.CF.SOL TR.COND A.132.0000-156.0000 SPECIFICATIONS: AMS 5643 FAX OR EMAIL P/W TO DART
N° de bon de commande / Purchase Order No 17464		Nbre de pièces / Part Number	Qté commandée / Ordered Qty 48.00 FT
			Qté Facturée / Invoice Qty 48.3333 FT

Détails / Details							
N° de livraison / Delivery No : 117798870	Usine / Mill NORTH AMERICAN STAINLESS	No de coulée / Heat Number C2E1	Code méc / Mech Id	Pièces / PCS 4	Largeur (Pouce) / Width (IN)	Longueur (Pouce) / Length (IN) 145.0000	Qté expédiée / Shipped Qty(LBS) 129.0500

Ces marchandises/technologies sont sujettes aux règlements de l'Export Administration et du département d'état des États-Unis. Si elles ont été/sont exportées, elles doivent se conformer à ces règlements. Toute modification du contrat de transport contraire aux lois des États-Unis est interdite.

These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

Nous certifions par la présente que le matériel couvert par cette certification est conforme aux spécifications susmentionnées et aux exigences applicables pour le matériel, y compris toute spécification faisant partie de la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera rejetée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Ce matériel a été reçu et inspecté par
Reviewed by Authorized Castle Metals Representative;

Date:

Name:

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law prohibited.

Date Printed: 25-JUL-2012 05:02:31 PM

T-076 P0014/0014 F-174

5626305767

06-08-'12 16:34 FROM-AMCASTLE-LAX

NORTH AMERICAN
STAINLESS

METALLURGICAL TEST REPORT

6870 Highway 42 East
Ghent, KY 41045-9615
(502) 347-6000

Certificate: 741374 06

Mail To:

A.M. CASTLE AND COMPANY
1420 KENSINGTON ROAD-SUITE 220
OAK BROOK IL 60523

Ship To:

A.M. CASTLE AND COMPANY
14001 ORANGE AVENUE
PARAMOUNT CA 90723

Date: 5/30/2012 Page: 1 Of 1

Steel: 630(17-4)

Finish: Cold Finish

Dia/Thk: 1.0000 in

Leg Length:

Length: 144.00 in

Corrosion:

Customer: 0032 006

NAS Order: LN 83091 4

Your Order: 163466

Item Code: 14968

PRODUCT DESCRIPTION:

AMS 2303R, AMS 5643R

Round Bar, Annealed, Smooth Turned, Cold Finished

UNS S17400, EN 10204 3.1B, ASTM A484/10

ASTM A564/10 ASME SA564-07

SOLUTION ANNEALED @ 1900F MIN FOR 1 HR MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DEARS EU DIRECTIVE 2002.95.
EC. RoHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA
FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight
BE66252	395	BE66549	1993						

CHEMICAL ANALYSIS

CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Chemical Analysis per ASTM A751/08

Heat	Supplier #	CM	C %	CS %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
C2E1		US	.029	.159	.11	15.18	3.27	.77	.13	.036	4.22	.029
			S %	SI %	TA %	TI %						
			.0225	.55	.0050	.0020						

MECHANICAL PROPERTIES

	1 d	RD	Ferrite	TS-900CAP	YS-900CAP	EL-900CAP	RA-900CAP	RC-900CAP	FREQ.	SEV.
	o i	No.	%	ksi	ksi	%	%	No.	No.	No.
BE66252	R L	352.0	.10	198.53	175.47	20.70	51.03	43.5	.09	.07
BE66549	R L	352.0	.10	198.53	175.47	20.70	51.03	43.5	.09	.07



NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS

Technical
Dept. Mgr.

PDTG HPGC

Linda Lacelle

From: Johnson, Brian <bjohnson@amcastle.com>
Sent: July-26-12 8:01 AM
To: llacelle@dartaero.com
Subject: Packing slip and cert for line 4 PO17464
Attachments: PSLIP & CERT FOR L 4 PO17464.pdf

Good Morning Linda,

Please find enclosed the packing slip and mill test report for line 4 of your PO17464. Material was shipped to Metcor on your behalf.

Best regards,

Brian Johnson

This E-mail may contain proprietary information and may be confidential. You are to treat this material in accordance with your company's confidentiality policies and limit any distribution accordingly. If you are not the intended recipient of this E-mail, you are hereby notified that any dissemination, distribution or copying of this message is strictly prohibited. If you received this message in error, please delete it immediately.

**Castle Metals®**

A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 1 of 2

No de Formulaire d'Emballage / Shipment No:1408204

Expédié de / Ship From:		Vendu à / Sold To:		Expédié à / Ship To:		Livré à / Deliver To:	
A. M. Castle & Co. (Canada) Inc. MONTREAL 835-SELKIRK AVENUE POINTE CLAIRE, QUEBEC H9R 3S2		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		WILL CALL-MONTREAL 835 SELKIRK AVENUE POINTE CLAIRE, QC H9R 3S2 CA	
Date d'expédition / Date Shipped	F.O.B.	Modalités de transport / Freight Terms		Transporteur / Carrier		No du Bon de connaissance / BOL No	
30-JUL-2012	ORIGIN	Prepaid		MANITOULIN		1408204-2	

Détails d'expédition / Shipment Details	Destination finale / Final Destination Branch - MON
--	--

N° de commande / Order No	N° de ligne Line No	N° d'article / Item No	Description	
2315995	1	752241.MO	2.5000.PL.7075.T7351.ALUMINUM.USI.48.5000.144.5000 CUT 2SIDED TO 8.25 IN (+ .0310/- .0000 IN (GRAIN TO RUN ALONG 5")) X 5 IN (+ .0310/- .0000 IN (GRAIN TO RUN ALONG 5")) - ALUMINUM PLATE SAW SPECIFICATIONS: AMS-QQ-A-250/12	
N° de bon de commande / Purchase Order No		Nbre de pièces / Part Number	Qté commandée / Ordered Qty	Qté Facturée / Invoice Qty
17464		YOUR ITEM NUMBER: D6101-005	30.00 PCS	30.00 PCS

Détails / Details							
N° de livraison / Delivery No :	Usine / Mill	No de coulée / Heat Number	Code méc / Mech Id	Pièces / PCS	Largeur (Pouce) / Width (IN)	Longueur (Pouce) / Length (IN)	Qté expédiée / Shipped Qty(LBS)
117813165		470001A9		10			106.6560
117813165	ALUMINUM CO OF AMERICA	505061		15			159.9841
117813165		436191		5			53.3280

Ces marchandises/technologies sont sujettes aux règlements de l'Export Administration et du département d'état des États-Unis. Si elles ont été/sont exportées, elles doivent se conformer à ces règlements. Toute modification du contrat de transport contraire aux lois des États-Unis est interdite.
These commodities/technologies are subject to US Export Administration & US State Dept. Regulations and, if intended for export, were/are exported thereunder. Diversion contrary to US Law is Prohibited.

These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to US law prohibited.

Date Printed: 30-JUL-2012 01:46:45 PM



Castle Metals®

A. M. Castle & Co.

BORDEREAU DE MARCHANDISES

Page 2 of 2

Nous certifions par la présente que le matériel couvert par cette certification est conforme aux spécifications susmentionnées et aux exigences applicables pour le matériel, y compris toute spécification faisant partie de la description. Les rapports d'essai sont archivés pour fins de consultation. Toute requête concernant du matériel défectueux sera rejetée à moins qu'elle ne soit faite par écrit à A. M. Castle & Co. dans les 60 jours suivant la livraison. Le matériel coupé sur mesure ou coupé par le client ne peut être retourné pour crédit.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or material cut by the customer cannot be returned for credit.

Ce matériel a été reçu et inspecté par
Reviewed by Authorized Castle Metals Representative:

Date:

Name:

T-539 P042/057 F-519

3165223453

03-20-'09 09:01 FROM-a m castle metals

CERTIFIED INSPECTION REPORT

Alcoa Inc.

PITTSBURGH, PA

DAVENPORT WORKS

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet, the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

Per:

Malcolm Murphy
Director of Manufacturing Davenport Works

Kerlan P. Young
Quality Assurance Manager

1007131

0

Ship Date

B.L. No.

Invoice No.

Alcoa No. Item

Page 1

2009-03-14

3567135

00000

1000078843-1

P.O. No./Govt Contract No.

Customer

Alcoa Item

Mfg Order

23-14883

CASTLE A M G041005634R10 DS-78843-1

Ship To: A M CASTLE & COMPANY
3050 SOUTH HYDRAULIC
WICHITA 67216 KS

Item Description

2.5 IN TK (+.075 -.075) X 48.5 IN W (+.3125 -
0.000) X 144.5 IN LN (+.5 -0.0) CAT D 164168 (N) A/T 7075-
T7351 RECTANGLE MILL FINISH, US1 3MM DEAD ZONE REQ'D BOTH SIDES,
SAWED IAC 6879 EXC MRK A97075-60 REV 25 AMS-QQ-A-250/12 IS 2007 AMS-
STD-2154 EXC MRK AMS4078 REV G EXC MRK ASTM B209
REV 07 ASTM B594 REV 06 BSS7055 REV A
EXC MRK MMS159 REV N PS21211 REV K {{MARKED}}
KRAFT PAPER INTERLEAVED
MAX GROSS SKID WGT: 4500 LB QUAN TOL +/-
25 % US1 CL A 3 MM CQR 0137890 REV 19 CUST REQ 09-03-
13 *** W/E 09-03-21 ***

Num	Package Ticket	Lot	Weight	Quantity	UOM	Pc Id/Serl
1	717584	433111 ✓	1786	1	PC	:
2	717894	436191 ✓	1777	1	PC	:
			3563	2		

Notes for CQR: 0137890.19

PRODUCT PRODUCED TO THE REQUIREMENTS OF MIL-STD-2154 ALSO MEET THE REQUIREMENTS OF AMS-STD-2154. PRODUCT PRODUCED TO THE REQUIREMENTS OF AMS-STD-2154 ALSO MEET THE REQUIREMENTS OF MIL-STD-2154.
THIS MATERIAL HAS BEEN ULTRASONICALLY INSPECTED FULLY IMMERSION - TYPE I.
PRODUCT PRODUCED AND MARKED TO THE REQUIREMENTS OF AMS-QQ-A-250/12 ALSO MEETS THE REQUIREMENTS OF QQ-A-250/12F. PRODUCT PRODUCED AND MARKED TO THE REQUIREMENTS OF QQ-A-250/12 F ALSO MEETS THE REQUIREMENTS OF AMS-QQ-A-250/12.
THIS MATERIAL HAS BEEN ULTRASONICALLY INSPECTED FULLY IMMERSION - TYPE I.

CQR: 0137890.19 -Specification Limits

Temp	Dir	UTS	TYS	EL4D
		KSI	KSI	PCT
T7351	Long Transv.	Max	63.9	
		Min	52.0	6
T7351	Elec. Cond. (2C) % MIN	38.0 PCT		

Chemical Composition	SI	FE	CU	MN	MG	CR	ZN	TI	Other	Other	Aluminum
	Max	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.15
Alloy 7075	Min			1.2		2.1	0.18	5.1			REMAIN

CASTLE METALS INC

DATE REC'D 3-16-09

REC'D FROM 5790

APPROVED BY

T-539 P043/057 F-519

3165223453

03-20-'09 09:02 FROM-a m castle metals

CERTIFIED INSPECTION REPORT

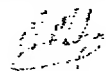
Alcoa Inc.

PITTSBURGH, PA DAVENPORT WORKS

Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet, the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

Per:



Melcom Murphy
Director of Manufacturing Davenport Works



Kanton P. Young
Quality Assurance Manager

1007131	0				
Ship Date	B.L. No.	Invoice No.	Alcoa No.	Item	Page 2
2009-03-14	3567135	00000	1000078843-1		
P.O. No./Govt Contract No.	Customer	Alcoa Item	Mfg Order		
23-14883	CASTLE A M	G041005634R10	DS-78843-1		

CQR: 0137890.19 -Specification Limits (cont.) -----

Lot: 433111 - Mechanical, Physical, Metallography, Quantometer Results -----

Temp	Dir	No-->	UTS	TYS	EL4D
		Test	KSI	KSI	PCT
T7351	Long Transv.	3	69.9	58.2	10.5
			69.5	58.2	10.8
			69.6	58.1	10.7

T7351 Elect Cond %IACS 40.7 41.4 40.8 PCT

Cast Number	Chemical - OES	SI	FE	CU	MN	MG	CR	ZN	TI
H9167054	Actuals	0.07	0.28	1.6	0.03	2.5	0.19	5.7	0.02

Lot: 436191 - Mechanical, Physical, Metallography, Quantometer Results -----

Temp	Dir	No-->	UTS	TYS	EL4D
		Test	KSI	KSI	PCT
T7351	Long Transv.	3	69.3	58.1	10.4
			69.6	58.3	10.4
			69.7	58.4	10.3

T7351 Elect Cond %IACS 40.7 40.9 40.9 PCT

Cast Number	Chemical - OES	SI	FE	CU	MN	MG	CR	ZN	TI
H9167056	Actuals	0.07	0.28	1.6	0.03	2.5	0.19	5.7	0.02

This material was melted in the United States or a Qualifying Country [REF DFARS 225.872.1(a)]; it was manufactured in the United States

T-005 P005/006 F-821

3166826167

05-21-'09 08:55 FROM-Castle Metals

CERTIFIED INSPECTION REPORT

Alcoa Inc.

PITTSBURGH, PA

DAVENPORT WORKS

Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet, the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

Malcolm Murphy
Director of Manufacturing Davenport Works

Kenton P. Young
Quality Assurance Manager

1019401	0			
Ship Date	B.L. No.	Invoice No.	Alcoa No.	Item Page
2009-05-18	3841289	00000	1000107929-1	
P.O. No./Govt Contract No.	Customer	Alcoa Item	Mfg Order	
8571	CASTLE A M-WICHITA	G041109843R02DS-07929-1		

Ship To: A M CASTLE & COMPANY
4611 EAST 31ST STREET
WICHITA 67210 KS

Item Description

2.5 IN TK (+.075 -.075) X 48.5 IN W (+.3125 - 0.000) X 144.5 IN LN (+.5 -0.0) CAT X 752241 (N) A/T 7075-
T7351 RECTANGLE MILL FINISH, US1 3MM DEAD ZONE REQ'D BOTH SIDES,
SAWED 752241. AMS-QQ-A-250/12 IS 2007 AMS-STD-
2154 EXC_MRK AMS4078 REV G BSS7055 REV A
CSTI006 REV D GAMPS9101 REV B EXC_MRK MMS159
REV N PS21211 REV K ((MARKED)) NOT
INTERLEAVED MAX GROSS SKID WGT: 5000 LB QUAN TOL +/-
40 % US1 CL A 3 MM CQR 0222142 REV 02 CUST REQ 09-05-
14 *** W/E 09-06-06 ***

Num	Package Ticket	Lot	Weight	Quantity	UOM	Pc Id/Serl
1	736475	505061	3588	2	PC	:
2	736481	505061	3584	2	PC	:
3	736496	505061	1810	1	PC	:
			8982	5		

Notes for CQR: 0222142.2

PRODUCT PRODUCED AND MARKED TO THE REQUIREMENTS OF AMS-QQ- A-250/12 ALSO MEETS THE REQUIREMENTS OF QQ-A-250/12F. PROD UCT
PRODUCED AND MARKED TO THE REQUIREMENTS OF QQ-A-250/12 F ALSO MEETS THE REQUIREMENTS OF AMS-QQ-A-250/12.
THIS MATERIAL HAS BEEN ULTRASONICALLY INSPECTED FULLY IMME RSION - TYPE I.
PRODUCT PRODUCED TO THE REQUIREMENTS OF MIL-STD-2154 ALSO MEET THE REQUIREMENTS OF AMS-STD-2154. PRODUCT PRODUCED TO THE
REQUIREMENTS OF AMS-STD-2154 ALSO MEET THE REQUIREMEN TS OF MIL-STD-2154.
THIS MATERIAL HAS BEEN ULTRASONICALLY INSPECTED FULLY IMME RSION - TYPE I.

CQR: 0222142.2 -Specification Limits -----

Temp	Dir	UTS	TYS	EL4D
		KSI	KSI	PCT
T7351	Long Transv.	Max	63.9	
		Min	66.0	6
T7351	Elec. Cond. (EC) % MIN	38.0	PCT	

Chemical Composition	SI	FE	CU	MN	MG	CR	ZN	TI	Other	Other	
									Each	Total Aluminum	
Alloy 7075	Max	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.15
	Min			1.2		2.1	0.18	5.1			REMAIN

TEST REPORTS AND
DATA CONFIRMED



05-21-'09 08:55 FROM-Castle Metals 3166826167 T-005 P006/006 F-821

CERTIFIED INSPECTION REPORT

Alcoa Inc.

PITTSBURGH, PA

DAVENPORT WORKS

Ship From: RIVERDALE, IA.

We hereby certify that the material covered by this certificate has been inspected with, and has been found to meet, the applicable requirements described therein, including any specifications forming a part of the description and that samples representative of the material met the composition limits and had the mechanical properties shown on the face of this sheet.

Per:

Malcolm Murphy
Director of Manufacturing Davenport Works

Kenton P. Young
Quality Assurance Manager

1019401

0

Ship Date

B.L. No.

Invoice No.

Alcoa No. Item

Page 2

2009-05-18

3841289

00000

1000107929-1

P.O. No./Govt Contract No.

Customer

Alcoa Item

Mfg Order

8571

CASTLE A M-WICHITA G041109843R02DS-07929-1

CQR: 0222142.2 -Specification Limits (cont.) -----

Lot: 505061 - Mechanical, Physical, Metallography, Quantometer Results -----

Temp	Dir	No->	UTS	TYS	EL4D
		Test	KSI	KSI	PCT
T7351	Long Transv.	3	71.8	60.2	10.7
			71.7	60.1	11.1
			71.6	60	10.9

T7351 Elect Cond %IACS 40.1 40.3 40.1 PCT

Cast Number	Chemical - OES	SI	FE	CU	MN	MG	CR	ZN	TI
H4505015	Actuals	0.07	0.29	1.6	0.03	2.5	0.21	5.6	0.02

This material was melted in the United States or a Qualifying Country [REF DFARS 225.872.1(a)]; it was manufactured in the United States



Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4160783

Lot: 470001A9 Cast 222 Drop 27 Ingot 2

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T7351	LT / 2 (Min:Max)	72.4 : 74.4 (499 : 513)	60.3 : 63.3 (416 : 436)	11.1 : 11.2

(ASTM E1004)

(EN 2004-1)

Conductivity %IACS :	39.8 Min	41.6 Max
(MS/M) :	23.1 Min	24.1 Max

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.09	0.19	1.5	0.02	2.5	0.20	5.8	0.04	0.01	0.01	TOT 0.05

Lot: 470010A0 Cast 222 Drop 29 Ingot 3

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T7351	LT / 2 (Min:Max)	72.7 : 74.4 (501 : 513)	60.7 : 63.7 (419 : 439)	10.7 : 11.2

(ASTM E1004)

(EN 2004-1)

Conductivity %IACS :	40.8 Min	41.2 Max
(MS/M) :	23.7 Min	23.9 Max

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.09	0.20	1.5	0.03	2.4	0.20	5.6	0.04	0.01	0.01	TOT 0.05

ALLOY LIMITS

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
7075 MIN	0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	EACH	0.05
MAX	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT	0.15

Aluminum Remainder

RECEIVED

APR 27 2009



**KAISER
ALUMINUM**

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

CERTIFIED TEST REPORT

Serial Number
4160783

TEST NOTES

7075-T7351 plate 3.001-3.500" thick, if ultrasonically
inspected, meets requirements of CMMPO25 per SDR
CMMPO25-KaiserT-1. 7075-T7351 plate 3.501-5.000" thick, if
ultrasonically inspected, meets requirements of CMMPO25 per
SDR CMMPO25-KaiserT-2.

Metal represented by this test report was immersion
ultrasonically tested from one side and meets the Class A
and Class B requirements of all specifications referenced
on this test report.



RECEIVED
APR 27 2009

CERTIFICATION

KAISER ALUMINUM FABRICATED PRODUCTS, LLC (KAISER) HEREBY CERTIFIES THAT METAL SHIPPED UNDER THIS ORDER WAS MELTED IN THE UNITED STATES OF AMERICA OR A QUALIFYING COUNTRY PER DFARS 225.872-1(a), WAS MANUFACTURED IN THE UNITED STATES OF AMERICA, AND MEETS THE REQUIREMENTS OF DFARS 252.225 FOR DOMESTIC CONTENT. THIS MATERIAL HAS BEEN INSPECTED, TESTED, AND FOUND IN CONFORMANCE WITH THE REQUIREMENTS OF THE APPLICABLE SPECIFICATIONS AS INDICATED HEREIN. ALL METAL WHICH IS SOLUTION HEAT TREATED COMPLIES WITH AMS 2772. ANY WARRANTY IS LIMITED TO THAT SHOWN ON KAISER'S STANDARD GENERAL TERMS AND CONDITIONS OF SALE. TEST REPORTS SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF KAISER ALUMINUM FABRICATED PRODUCTS, LLC LABORATORY. THE RECORDING OF FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTIRE ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW. ISO-9001:2000 CERTIFIED.

BILL POYNOR, LABORATORIES SUPERVISOR



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO17464

Purchase Order Date 7/17/12
PO Print Date 7/17/12

Page Number 1 of 2

Order From : VC-MET001
METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - BOX B9204 PO BOX 9100
TORONTO, ON M4Y 3A5
CA

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	514 694 9575	Requisition Nbr	
Vendor Fax	514 695 3281	Tax Resale Nbr	10127-2607
Vendor Account Nbr		Terms	Net 30
		Currency	CAD
		FOB	Destination-Collect

Ship To : DART AEROSPACE LTD 1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED

cc mail

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	M304R0.375 <i>028</i>	304 ROUND BAR 0.375	7/27/12 Yes	<input checked="" type="checkbox"/> 24.00 f	Yours ppd	\$1.3900	\$33.36
		Special Inst:	MATERIAL: MATERIAL: 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE				
	M304R1.000 <i>029</i>	304 round bar 1.00	7/27/12 Yes	<input checked="" type="checkbox"/> 12.00 f	Yours ppd	\$7.7200	\$92.64
		Special Inst:	MATERIAL: MATERIAL: 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE				
3	M303R0.750 <i>028</i>	303 Round Bar 0.750	7/27/12 Yes	108.00 f	Yours ppd	\$4.2600	\$460.08
		Special Inst:	MATERIAL: AISI 303 SS ROUND BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE				

MATERIAL CERTIFICATION
REQD UPON DELIVERY

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required ☒ YES ☐ NO

Change Nbr: 1

Change Date: 7/17/12



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO17464

Purchase Order Date 7/17/12

PO Print Date 7/17/12

Page Number 2 of 2

Order From :

VC-MET001

METAUX CASTLE
A.M. CASTLE & CO. (CANADA) INC. - BOX B9204 PO BOX 9100
TORONTO, ON M4Y 3A5
CA

Contact Name

Vendor Phone

Vendor Fax

Vendor Account Nbr

514 694 9575

514 695 3281

Buyer

Requisition Nbr

Tax Resale Nbr

Terms

Currency

FOB

Chantal Lavoie

10127-2607

Net 30

CAD

Destination-Collect

QTY	Part Number	Description	Unit Price	Unit	Price	Amount
1	M174PH-H900R1.000	17-4SS H900 ROUND BAR 1.00	7/27/12	48.00	Yours ppd	\$10.0700

Yes

f

48-333

(12/1/31)

Special Inst: MATERIAL: 17-4 PH COND. H900
AS PER AMS 5643

NOTE:
PLEASE SHIP MATERIAL TO METCOR
INC.
560 BOULV. ARTHUR SAUVE
SAINT-EUSTACHE, QC
J7R-5A8
450-473-1884

5	D6101-005P	7075-T7351 8.25X5.0X2.5	7/27/12	60.00	Yours ppd	\$57.9500
---	------------	-------------------------	---------	-------	-----------	-----------

Yes

Each

Ne30

(12/1/31)

Special Inst: AS PER DWG D6101 REV B
B87265
MATERIAL: 7075-T7351 AS PER QQ-A-
250/12
SIZE. 5.00" X 8.250" X 2.50" THICK
GRAIN DIRECTION ALONG 5.00"
LENGTH
TOLERANCE ON ALL DIMENSION ARE
+0.030"/-0.000'



PO Total:

\$4,546.44

Change Nbr: 1

Change Date: 7/17/12

No substitution or deviation without
consent.

Certificate of Conformity or Material
Certification required - YES NO

Receiving Report

Date: 12/8/01

Batch No: 1122596

Supplier: MTCOR

Dart P/O: 17465

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☒ No ☐ N/A ☐
 Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC6 Inspection 16 2/6/14 N/A ☒
 Work Order 9-5

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12 [Signature]

Production/Admin: 12/8/02
 Date [Signature]
 Received/Costing [Signature]
 Initial [Signature]

Location

METCOR INC.

560 BOUL. ARTHUR-SAUVÉ
ST-EUSTACHE, QC J7R 5A8
Tel: 450-473-1884 / Fax: 450-491-5498

Recu de Livraison

Order	Shipper	Shipping Seq.
178003	1	63089

Shipped Complete

Customer **215**
DART AEROSPACE
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

Shipped To:
DART AEROSPACE
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
Ph: 613-632-5200
Fax: 613-632-1053

Purchase Order Number	Customer Shipper No.	Material Type	Order Date	Carrier
PO17465		17-4PH	2012/7/26	pick up
Quantity	Part No. / Part Name / Part Description			Pounds

8 ROUND BAR
17-4PH ROUND BAR 1.000 SENT FROM
METAUX CASTLE P/O: 17464

130,

CONTENANT: 1 NIL

Container Type	# Of Containers	Container Comments
NIL	1	

CERTIFICAT

PACKING	
----------------	--

Quantity Shipped: 8 ✓

Pounds Shipped: 130,00

Quantity Remaining: 0

Pounds Remaining: 0,00



CERTIFICAT

Quantity Shipped: 8

Pounds Shipped: 130,00

Signature:

Date:

Shipped ON: 2012/07/30

**METCOR INC.****560 BOUL. ARTHUR-SAUVÉ
ST-EUSTACHE, QC, J7R 5A8****Tel: 450-473-1884 / Fax: 450-491-5498****Certificat de Conformité**
Certificate of Compliance

BON DE TRAVAIL order	CHARGEMENT load
178003	1

CLIENT / customer 215DART AEROSPACE
1270 ABERDEEN
HAWKESBURY

ON K6A 1K7

LIVRÉ À / shipped to:

DART AEROSPACE
1270 ABERDEEN
HAWKESBURY

ON K6A 1K7

1

COMMANDE DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
PO17465		17-4PH		
SPÉCIFICATIONS DU PROCÉDÉ processing specifications				
AGE HARDEN CONDITION H 900 SAE AMS 2759/3 REV.E				
<i>Acceptable per AMS 2759/3 TABLE 3, H900 = HRC 40 to 47 CP 12/3/13</i>				
EXIGENCE / requirement	SPÉCIFICATIONS / specified	TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results	
HARDNESS	40 - 47 HRC	8	41 - 43 HRC	
QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description		
8	130	ROUND BAR 17-4PH ROUND BAR 1.000 SENT FROM METAUX CASTLE P/O: 17464 CONTENANT: 1 NIL		

COMMENTAIRES / comments

ALL THE HEAT TREATMENT PROCESSING PERFORMED ON THIS ORDER WAS ACCOMPLISHED USING HEAT TREATMENT EQUIPMENT THAT MEETS THE REQUIREMENTS OF AMS 2759. ALL THE HEAT TREATMENT OPERATIONS WERE ACCOMPLISHED IN ACCORDANCE WITH THE REQUESTED/REQUIRED HEAT TREATMENT SPECIFICATION AND ALL REQUIRED VERIFICATIONS TEST HAVE BEEN PERFORMED AND DOCUMENTED. NO UNAUTHORIZED CHANGES OR DEVIATIONS TO REQUIRED HEAT TREATMENT SPECIFICATIONS OR PROCEDURES HAVE BEEN PERFORMED.

CERTIFIÉ par / Certified by: Isabel Otero

DATE: 2012-07-30



Metcor Inc.
560, boul. Arthur-Sauvé
St-Eustache (Québec) J7R 5A8
Tél. : 450 473-1884
Télécopieur / Fax administration : 450 491-5498
Télécopieur / Fax distribution : 450 491-6454

Certificat de Conformité
Certificate of Compliance

BON DE TRAVAIL order	CHARGEMENT load
178003	1

CLIENT / customer 215
DART AEROSPACE
1270 ABERDEEN
HAWKESBURY

ON K8A 1K7

LIVRÉ À / shipped to:
DART AEROSPACE
1270 ABERDEEN
HAWKESBURY

ON K8A 1K7

COMMANDE DU CLIENT customer po	BON DE LIVRAISON DU CLIENT customer shipper no.	MATÉRIEL material	CODE DE TRAITEMENT mat'l heat code	NUMÉRO DE LOT lot number
PO17465		17-4PH		

SPÉCIFICATIONS DU PROCÉDÉ
processing specifications

AGE HARDEN
CONDITION H 900
SAE AMS 2759/3 REV.E

EXIGENCE / requirement	SPÉCIFICATIONS / specified	TESTS EXÉCUTÉS / performed	RÉSULTATS DE TESTS / results
HARDNESS	40 - 47 HRC	8	41 - 43 HRC

QUANTITÉ quantity	POIDS weight	DESCRIPTION DES PIÈCES parts description
8	130	ROUND BAR 17-4PH ROUND BAR 1.000 SENT FROM METAUX CASTLE P/O: 17464 CONTENANT: 1 NIL

COMMENTAIRES / comments

CERTIFIÉ par / Certified by:



DATE: 2012-07-30



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO17465

Purchase Order Date 7/17/12

PO Print Date 7/17/12

Page Number 1 of 1

Order From :

METCOR INC.
560 BOUL. ARTHUR SAUVE
SAINT-EUSTACHE, QC J7R 5A8
CA

VC-MET004

Contact Name

Vendor Phone 450 473 1884

Vendor Fax 450 491 5498

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

10127-2607

Tax Resale Nbr

Net 30

Terms

Currency

CAD

FOB

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED
8/6/12/12 e-mail

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1		M17-4PH-H900R1.000 HEAT TREAT	8/10/12 Yes	48.00 Each	FedEx PI collect	\$10.0000	\$480.00

Special Inst: 17-4 PH ROUND BAR 1.000 SENT FROM
METAUX CASTLE P/O:17464
HEAT TREAT TO COND H900
FTY IN EXCESS OF 170KSI
FTU IN EXCESS OF 190KSI
PER AMS2759/3

PLEASE ADVISE PRICE \$\$\$\$\$\$

PO Total:

\$480.00



Change Nbr:

1

Change Date: 7/17/12

No substitution or deviation without
consent.

Certificate of Conformity or Material
Certification required **YES** NO